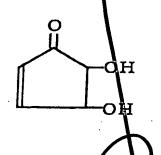
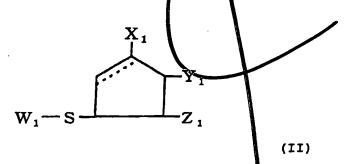
the pharmaceutical composition containing, as an active ingredient, an amount sufficient for said treating or preventing, in a unit dosage form, of a compound selected from the group consisting of 4,5-dihydroxy-2-cyclopenten-1-one of formula (I):



4-hydroxy-2-cyclopenten-1-one;

(I);

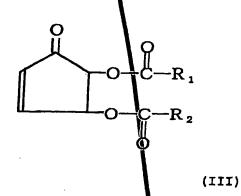
a compound of formula (II):



wherein a bond in the five-membered ring represented by a broken line means that the five-membered ring may be either a cyclopentene ring having a double bond or a saturated cyclopentane ring; in the case of a cyclopentene ring,  $X_1$  is OH,  $Y_1$  is =0 and  $Z_1$  is H; on the other hand, in the case

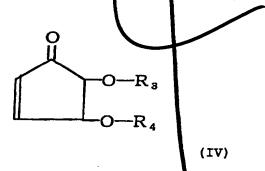
of a cyclopentane ring,  $X_1$  is =0,  $Y_1$  is OH and  $Z_1$  is OH;  $W_1$  is a residue in which a SH group is removed from a SH group-containing compound;

a compound of formula (III):



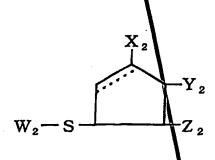
wherein  $R_1$  and  $R_2$  may be the same or different each other, and are hydrogen, or an aliphatic, aromatic or aromatic aliphatic group;

a compound of formula (IV):



wherein  $R_3$  and  $R_4$  may be the same or different each other, and are hydrogen, or an aliphatic, aromatic or aromatic aliphatic group, provided that  $R_3$  and  $R_4$  are not simultaneously H;

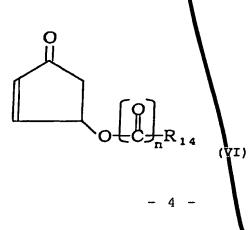
a compound of formula (V):



(V)

wherein a bond in the five-membered ring represented by a broken line means that the five-membered ring may be either a cyclopentene ring having a double bond or a saturated cyclopentane ring; in the case of a cyclopentene ring,  $X_2$  is  $OR_5$ ,  $Y_2$  is  $OR_5$ ,  $OR_5$ 

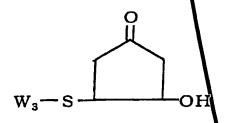
a compound of formula (VI):





wherein  $R_{14}$  is an aliphatic, aromatic or aromatic aliphatic group, and n is 0 or 1, provided that if n is 0,  $R_{14}$  is not H;

a compound of formula (VII):



(VII)

wherein  $W_3$  is a residue in which a SH group is removed from a SH group-containing compound;

4-(9-adeninyl)-2-cyclopenten-1-one; and 4-(9-guaninyl)-2-cyclopenten-1-one.

5. (New) The pharmaceutical composition of claim 4 wherein said compound is selected from the group consisting of 4,5-dihydroxy-2-cyclopenten-1-one; the compound of formula II; the compound of formula IV; the compound of formula V; the compound of formula V; the compound of formula IV; 4-(9-adeniny1)-2-cyclopenten-1-one; and 4-(9-guaniny1)-2-cyclopenten-1-one.

6. (New) A method for enhancing growth factor production and/or interleukin-12 production, the method comprising administering a composition containing, as an active ingredient, a compound selected from the group consisting of 4,5-dihydroxy+2-cyclopenten-1-one of formula (I):

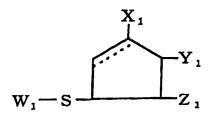
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(I);

4-hydroxy-2-cyclopenten-1-one;

a compound of formula (II):

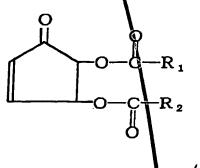


(II)

wherein a bond in the five-membered ring represented by a broken line means that the five-membered ring may be either a cyclopentene ring having a double bond or a saturated cyclopentane ring; in the case of a cyclopentene ring,  $X_1$  is OH,  $Y_1$  is =0 and  $Z_1$  is H; on the other hand, in the case

of a cyclopentane ring,  $X_1$  is =0,  $Y_1$  is OH and  $Z_1$  is OH;  $W_1$  is a residue in which a SH group is removed from a SH group-containing compound;

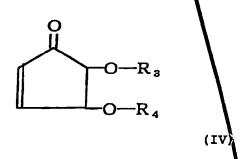
a compound of formula (III):



(III)

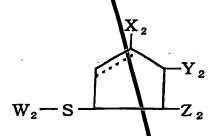
wherein  $R_1$  and  $R_2$  may be the same or different each other, and are hydrogen, or an aliphatic, aromatic or aromatic aliphatic group;

a compound of formula (IV):



wherein  $R_3$  and  $R_4$  may be the same of different each other, and are hydrogen, or an aliphatic, aromatic or aromatic aliphatic group, provided that  $R_3$  and  $R_4$  are not simultaneously H;

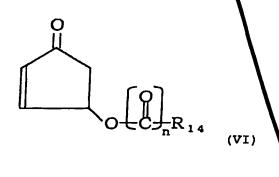
a compound of formula (V):



(V)

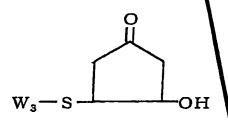
wherein a bond in the five-membered ring represented by a broken line means that the five-membered ring may be either a cyclopentene ring having a double bond or a saturated cyclopentane ring; in the case of a cyclopentene ring,  $X_2$  is  $OR_3$ ,  $Y_2$  is =0 and  $Z_2$  is H; on the other hand, in the case of a cyclopentane ring,  $X_2$  is =0,  $Y_2$  is  $OR_6$  and  $Z_2$  is  $OR_7$ ;  $R_5$  is  $R_6$  or  $-(CO)-R_9$ ;  $R_6$  is H,  $R_{10}$  or  $-(CO)-R_{11}$ ; and  $R_6$  is H,  $R_{12}$  or  $-(CO)-R_{13}$  (wherein  $R_8$ ,  $R_9$ ,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$  and  $R_{13}$  may be the same or different each other, and are an aliphatic, aromatic or aromatic aliphatic group, and  $R_9$ ,  $R_{11}$  and  $R_{13}$  may be H), provided that  $R_6$  and  $R_7$  are not simultaneously H;  $W_2$  is a residue in which a SH group is removed from a SH group-containing compound;

a compound of formula (V):



wherein  $R_{14}$  is an alighatic, aromatic or aromatic alighatic group, and n is 0 or 1, provided that if n is 0,  $R_{14}$  is not H;

a compound of formula (VII):



(VII)

wherein  $W_3$  is a residue in which a SH group is removed from a SH group-containing compound:

4-(9-adeninyl)-2-cyclopenten-1-one; and

4-(9-guaninyl)-2-cyclopenten-1-one.

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7. (New) The method according to claim 5, which is used for treating or preventing a disease that requires enhancement of growth factor production for its treatment or prevention and/or a disease that requires enhancement of interleukin-12 production for its treatment or prevention.

8. (New) The method according to claim 5, wherein the composition is a food or a drink.